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## WHAT IS CLAIMED IS:

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1. A display system comprising:

a light-emitting device,

wherein a luminance of said light-emitting device is controlled by obtaining an information signal of an environment.

- 2. A display system according to claim 1, wherein said information signal comprises a user's living-body information.
- 3. A display system according to claim 1, wherein said light-emitting device is an EL display device.
- 4. A display system according to daim 1, wherein said display system is incorporated in one selected from the group consisting of a video camera, a digital camera, a head-mount display, a car navigation system, a portable telephone, and a personal computer.
  - 5. A display system comprising:
  - a light-emitting device;
  - a sensor for obtaining an information signal of an environment;
- a CPU for converting an electrical signal supplied from said sensor into a correction signal; and
- a voltage changer for controlling a corrected potential based on said correction signal.
  - 6. A display system according to claim 5, wherein said information signal comprises

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a user's living-body information.

- 7. A display system according to claim 5, wherein said light-emitting device, said sensor, said CPV and said voltage changer are formed on a same substrate.
- 8. A display system according to claim 5, wherein said light-emitting device is an EL display device.
- 9. A display system according to claim 5, wherein said display system is incorporated in one selected from the group consisting of a video camera, a digital camera, a head-mount display, a car navigation system, a portable telephone, and a personal computer.
  - 10. A display system comprising:

an EL element having two dectrodes with an EL layer interposed therebetween; and

a current control TFT electrically connected to one of said two electrodes of said EL element,

wherein a potential applied to other of said two electrodes of said EL element is controlled based on an information signal of an environment.

- 11. A display system according to claim\10, wherein said information signal comprises a user's living-body information.
- 12. A display system according to claim 10, wherein said display system is incorporated in one selected from the group consisting of a video camera, a digital camera, a head-mount display, a car navigation system, a portable telephone, and a personal

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computer.

13.\An active matrix display device comprising:

at least one pixel thin film transistor over a substrate, said thin film transistor comprising at least an active layer, and a gate electrode adjacent to said active layer with a gate insulating film interposed therebetween;

an EL element comprising at least an EL layer between an anode and a cathode, one of said anode and said cathode being electrically connected to said active layer; and

a sensor for obtaining an information signal of an environment,

wherein a potential applied to another one of said anode and said cathode is controlled based on an information signal of an environment by converting said information signal to a corrected potential.

- 14. An active matrix display device according to claim 13, wherein said display device and said sensor are formed over a same substrate.
- 15. An active matrix display device according to claim 13, wherein said sensor comprises a CCD or a photo-diode.
- 16. An active matrix display device according to claim 13, wherein said information signal comprises a user's living-body information.
- 17. An active matrix display device according to claim 13, wherein said display device is one selected from the group consisting of a video camera, a digital camera, a headmount display, a car navigation system, a portable telephone, and a personal computer.

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(8. An active matrix display device comprising:

at least one pixel thin film transistor over a substrate, said thin film transistor comprising at least an active layer, and a gate electrode adjacent to said active layer with a gate insulating film interposed therebetween;

an EL element comprising at least an EL layer between an anode and a cathode, one of said anode and said cathode being electrically connected to said active layer; and

a sensor for obtaining an information signal of an environment,

wherein said information signal is converted to a corrected potential and said corrected potential is applied to another one of said anode and said cathode.

- 19. An active matrix display device according to claim 18, wherein said display device and said sensor are formed over a same substrate.
- 20. An active matrix display device according to claim 18, wherein said sensor comprises a CCD or a photo-diode.
- 21. An active matrix display device according to claim 18, wherein said information signal comprises a user's living-body information.
- 22. An active matrix display device according to claim 18, wherein said display device is one selected from the group consisting of avideo camera, a digital camera, a headmount display, a car navigation system, a portable telephone, and a personal computer.
  - 23. An active matrix display device comprising:

at least one pixel thin film transistor over a substrate, said thin film transistor comprising at least an active layer, and a gate electrode adjacent to said active layer with a

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gate insulating film interposed therebetween;

of said anode and said cathode being electrically connected to said active layer; and

- a sensor for obtaining an information signal of an environment,
- a CPU for converting said information signal to a corrected signal;
- a voltage changer for converting said corrected signal to a corrected potential,
- wherein said corrected potential is applied to another one of said anode and said cathode.
- 24. An active matrix display device according to claim 23, wherein said display device, said sensor, said CPU, and said voltage changer are formed over a same substrate.
- 25. An active matrix display device according to claim 23, further comprising an A/D converter interposed between said sensor and said CPU, and a D/A converter interposed between said CPU and said voltage changer.
- 26. An active matrix display device according to claim 23, wherein said sensor comprises a CCD or a photo-diode.
- 27. An active matrix display device according to claim 23, wherein said information signal comprises a user's living-body information.
- 28. An active matrix display device according to claim 23, wherein said display device is one selected from the group consisting of a video camera, a digital camera, a headmount display, a car navigation system, a portable telephone, and a personal computer.

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29. An active matrix display device comprising:

at least one pixel thin film transistor over a substrate, said thin film transistor comprising at least an active layer, and a gate electrode adjacent to said active layer with a gate insulating film interposed therebetween;

an EL element comprising at least an EL layer between an anode and a cathode, one of said anode and said cathode being electrically connected to said active layer; and

a sensor for obtaining an information signal of an environment,

wherein a potential of another one of said anode and said cathode is controlled by a corrected potential converted from said information signal.

- 30. An active matrix display device according to claim 29, wherein said display device and said sensor are formed over a same substrate.
- 31. An active matrix display device according to claim 29, wherein said sensor comprises a CCD or a photo-diode.
- 32. An active matrix display device according to claim 29, wherein said information signal comprises a user's living-body information.
- 33. An active matrix display device according to claim 29, wherein said display device is one selected from the group consisting of a video camera, a digital camera, a headmount display, a car navigation system, a portable telephone, and a personal computer.
  - 34. An active matrix display device comprising:
- at least one pixel thin film transistor over a substrate, said thin film transistor comprising at least an active layer, and a gate electrode adjacent to said active layer with a

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gate insulating film interposed therebetween;

said corrected potential.

an EL element comprising at least an EL layer between an anode and a cathode, one of said anode and said cathode being electrically connected to said active layer; and

- a sensor for obtaining an information signal of an environment,
- a CPU for converting said information signal to a corrected signal;
- a voltage changer for converting said corrected signal to a corrected potential, wherein a potential of another one of said anode and said cathode is controlled by
- 35. An active matrix display device according to claim 34, wherein said display device, said sensor, said CPU, and said voltage changer are formed over a same substrate.
- 36. An active matrix display device according to claim 34, further comprising an A/D converter interposed between said sensor and said CPU, and a D/A converter interposed between said CPU and said voltage changer.
- 37. An active matrix display device according to claim 34, wherein said sensor comprises a CCD or a photo-diode.
- 38. An active matrix display device according to claim 34, wherein said information signal comprises a user's living-body information.
- 39. An active matrix display device according to claim 34, wherein said display device is one selected from the group consisting of a video camera, a digital camera, a headmount display, a car navigation system, a portable telephone, and a personal computer.